

FIG1
(PRIOR ART)

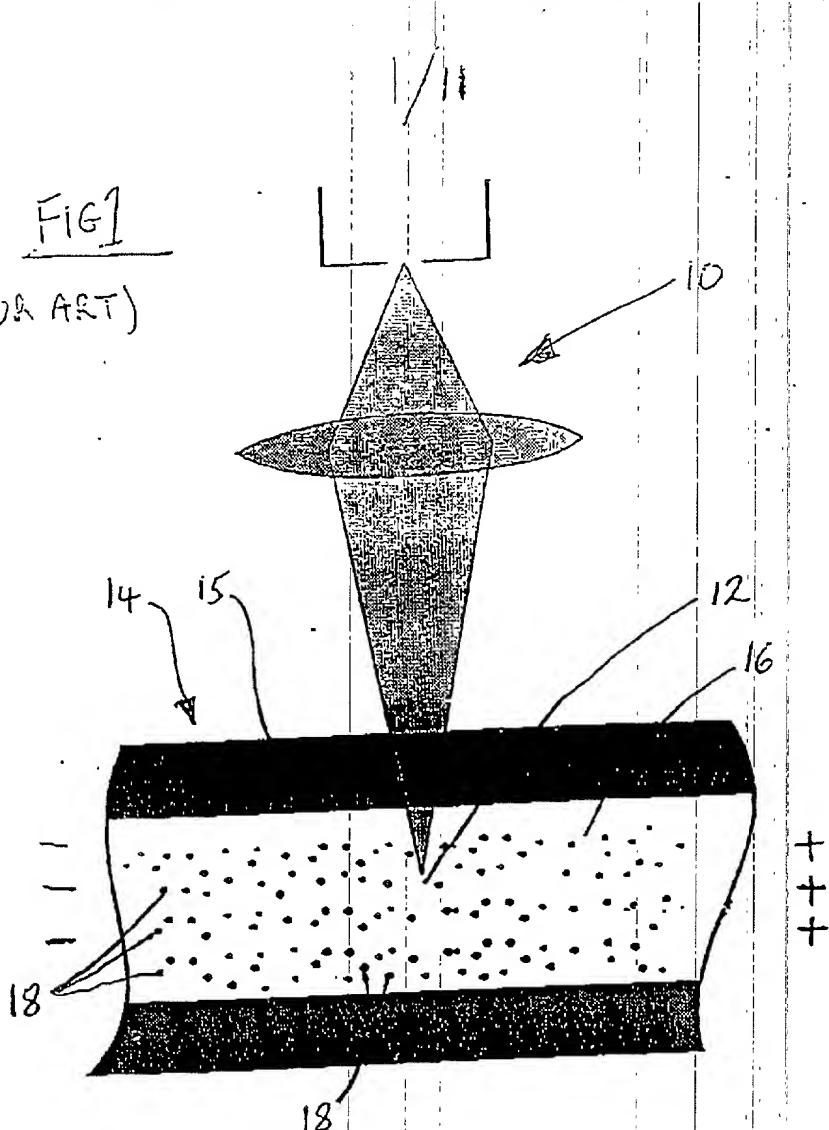
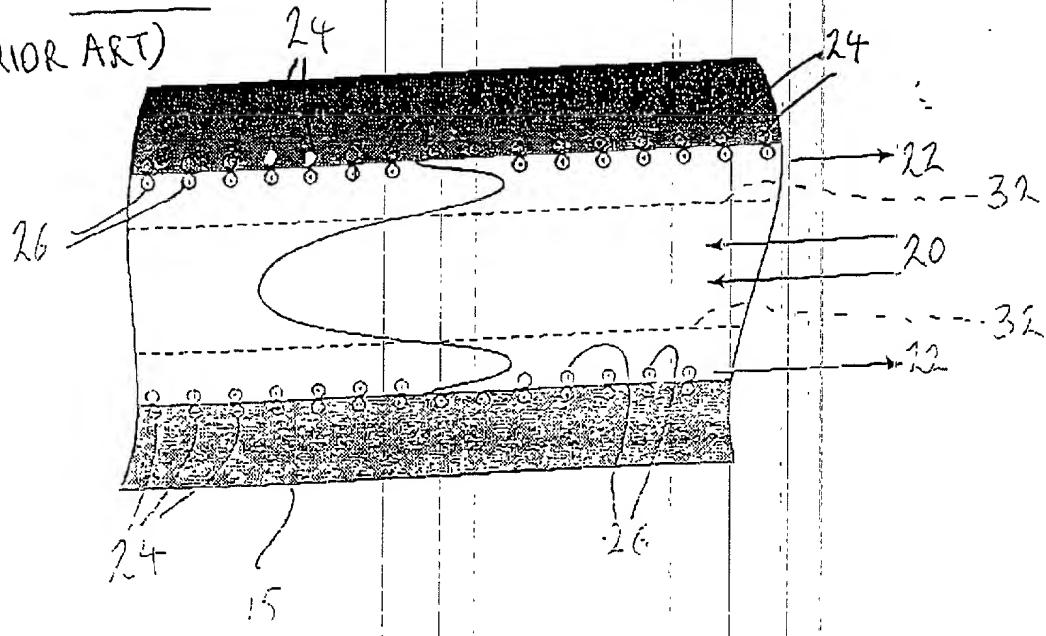
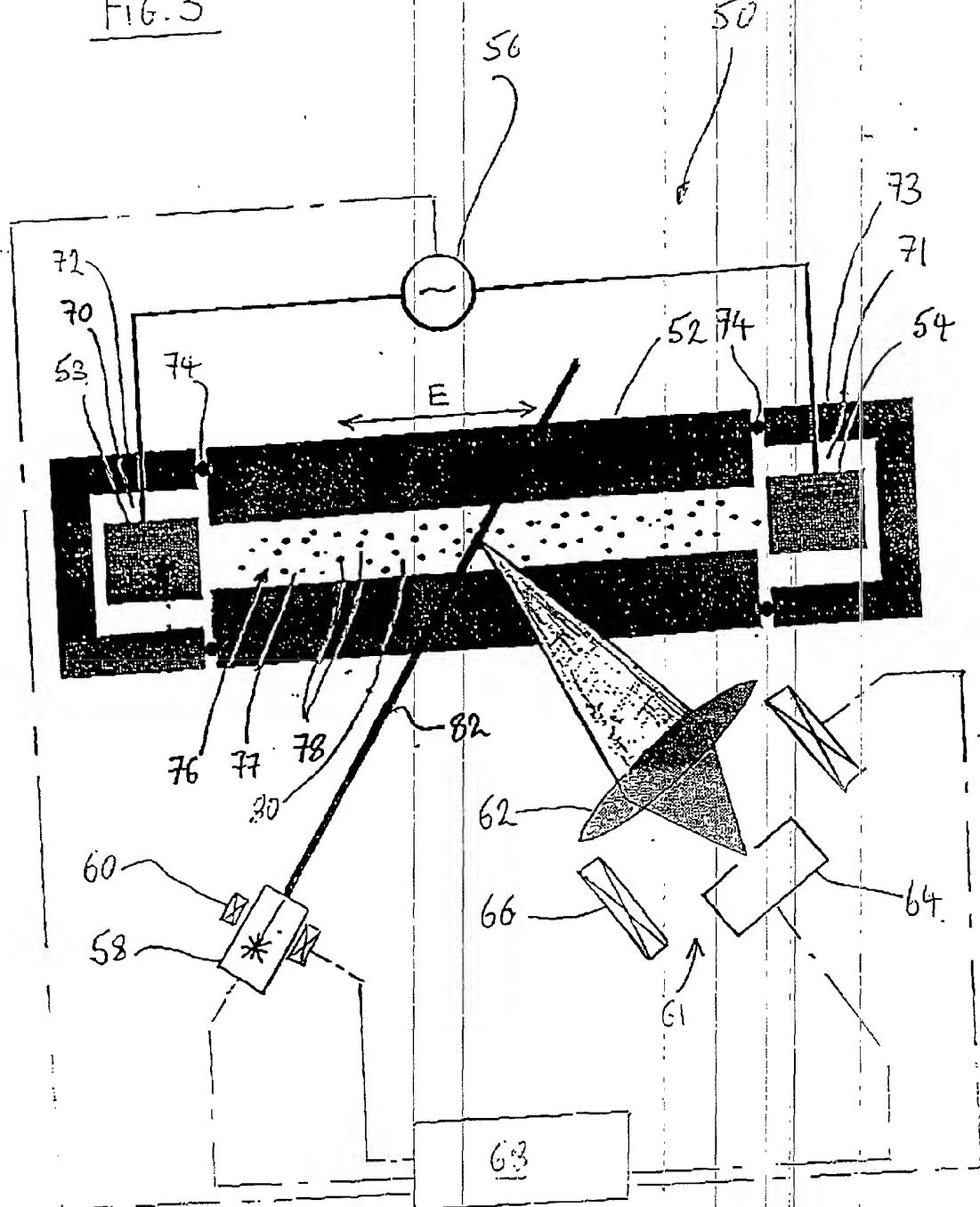


FIG2
(PRIOR ART)



2/11

Fig. 3



3/11

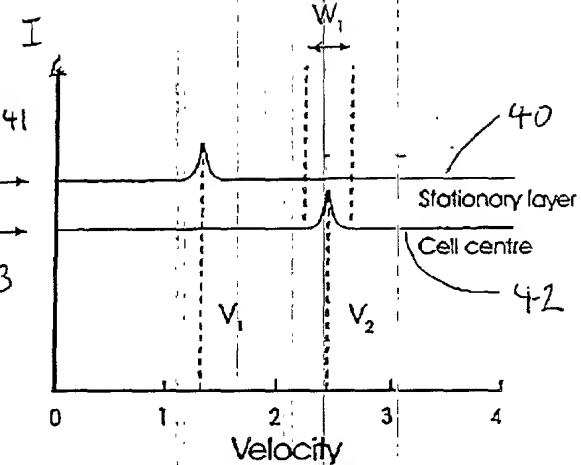
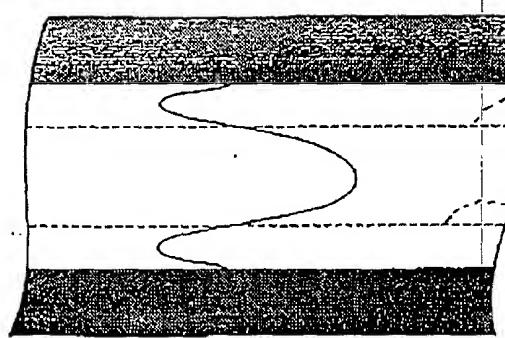


FIG. 4

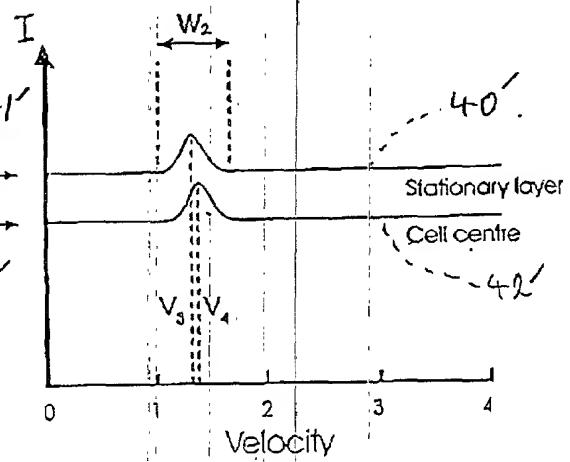
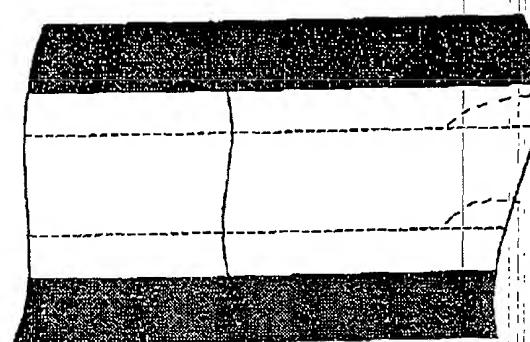
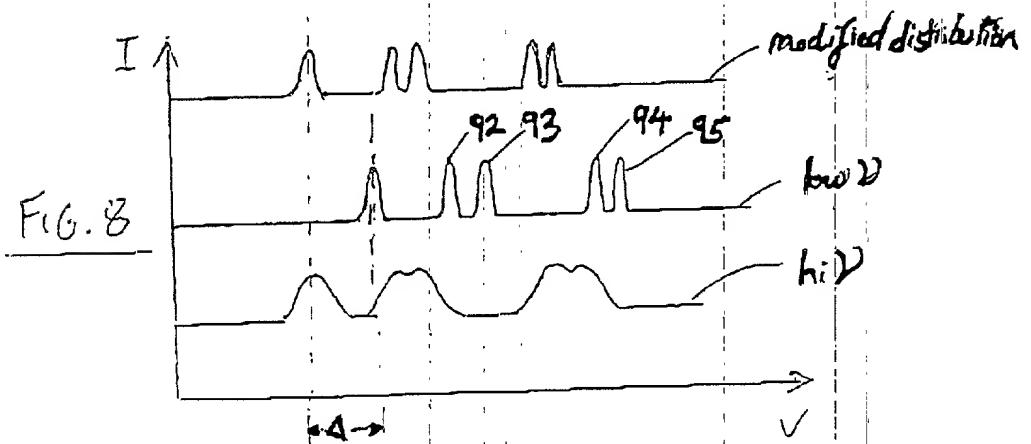
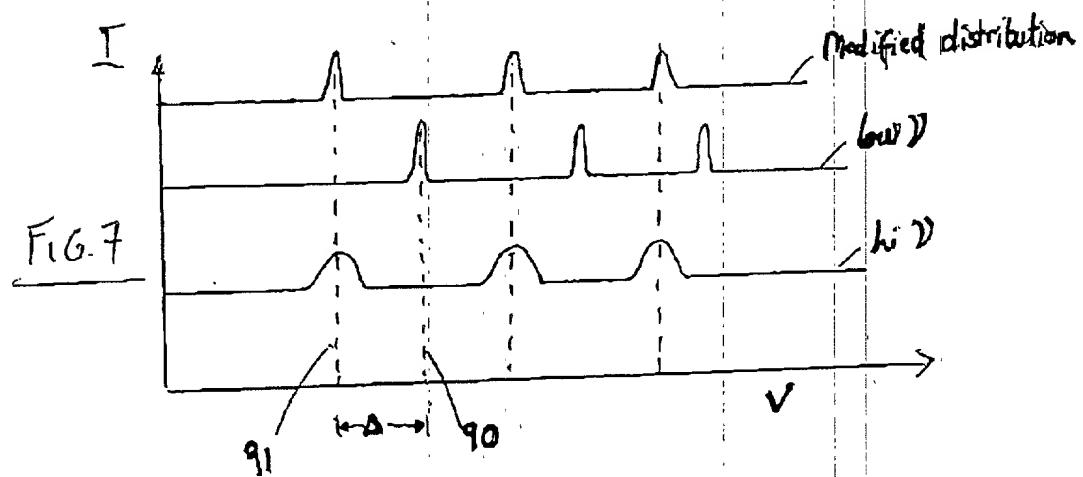
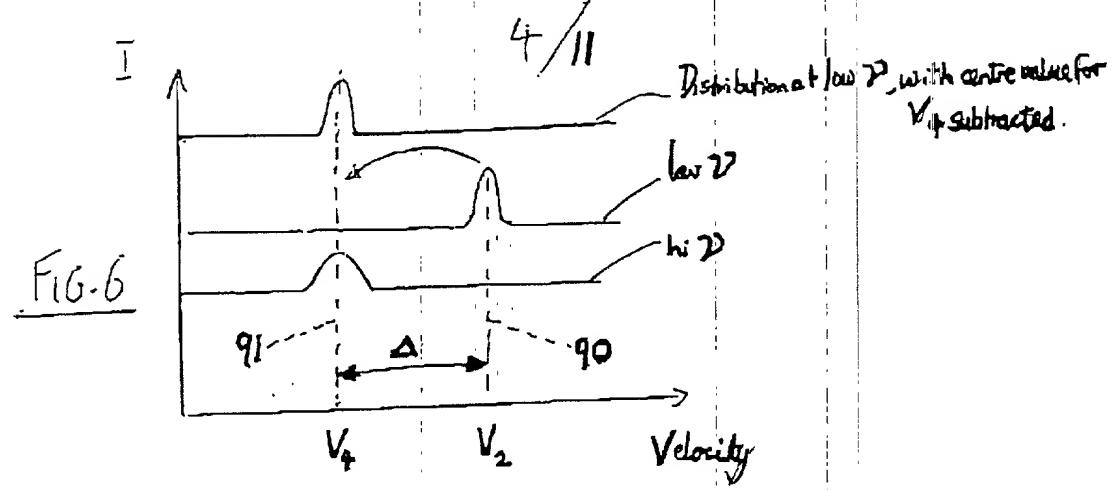


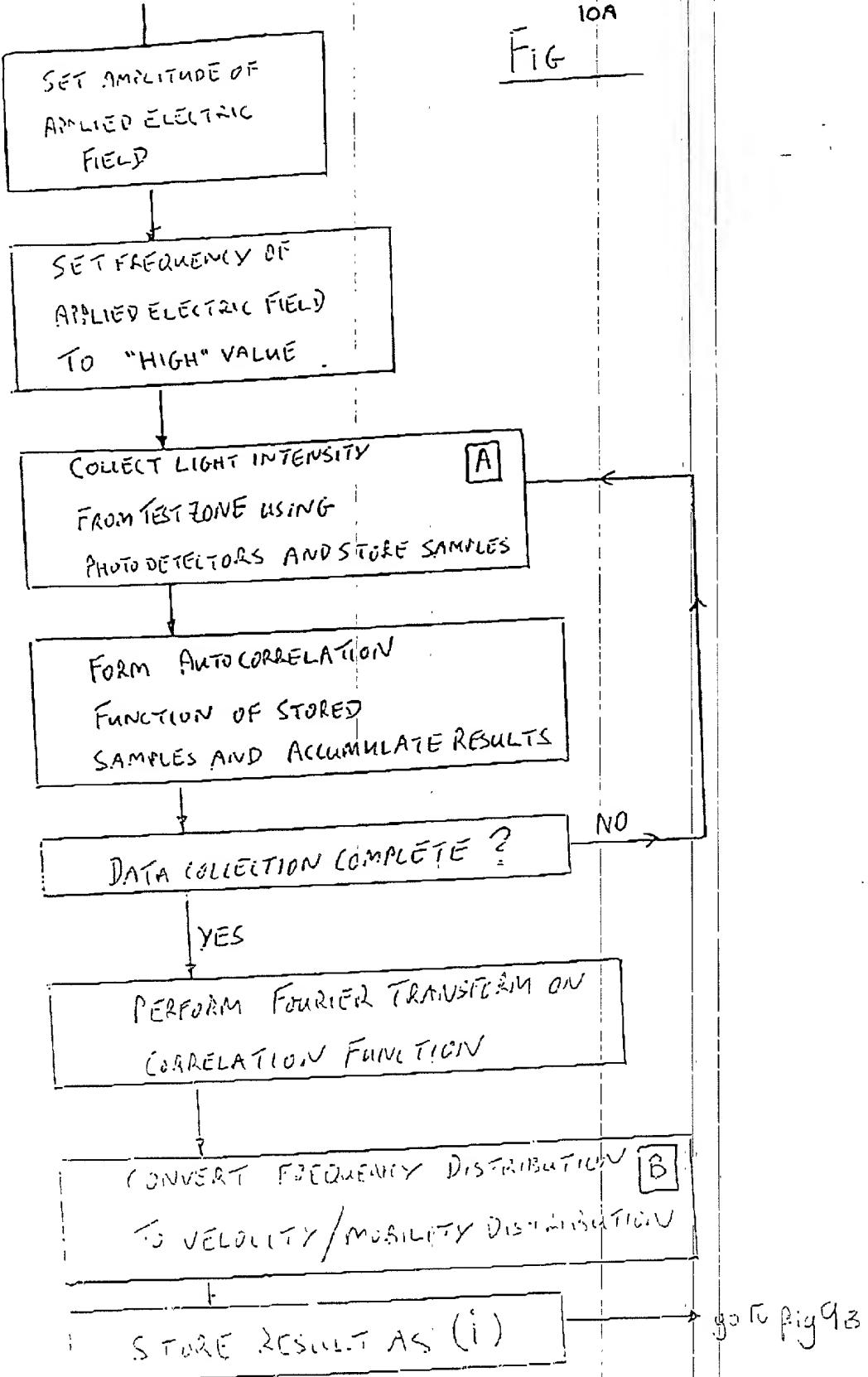
FIG. 5



5/11

10A

Fig

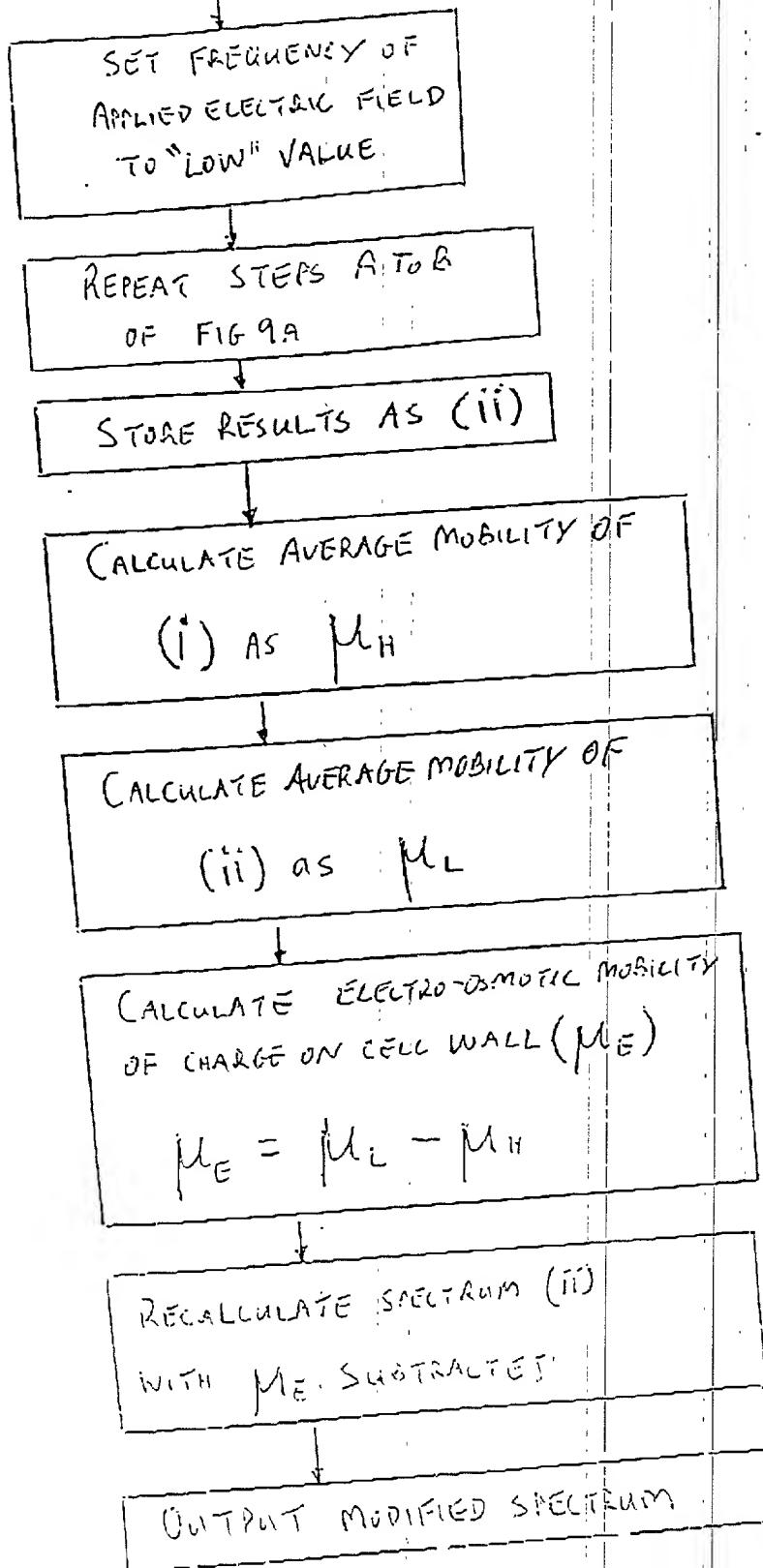


6/11

10B

FIG

FROM FIG 9A



7/11

FIGEQUATIONS

$$a) \text{ Mobility } \mu = \frac{\text{Velocity of Particle (V)}}{\text{Electric field (E)}}$$

$$b) \bar{\mu} = \frac{\int_{-\infty}^{+\infty} \mu f(\mu) d\mu}{\int_{-\infty}^{+\infty} f(\mu) d\mu}$$

where $f(\mu)$ = mobility spectra

$$c) \text{ electroosmotic mobility } \mu_E = \bar{\mu}_L - \bar{\mu}_H$$

where $\bar{\mu}_L$ = particle mobility at low frequency applied electric field.

and $\bar{\mu}_H$ = particle mobility at high frequency applied electric field.

$$d) f'(\mu) = f_H (\mu + \mu_E)$$

where $f'(\mu)$ is the corrected form of the particle mobility distribution function

3/11

FIG. 12A

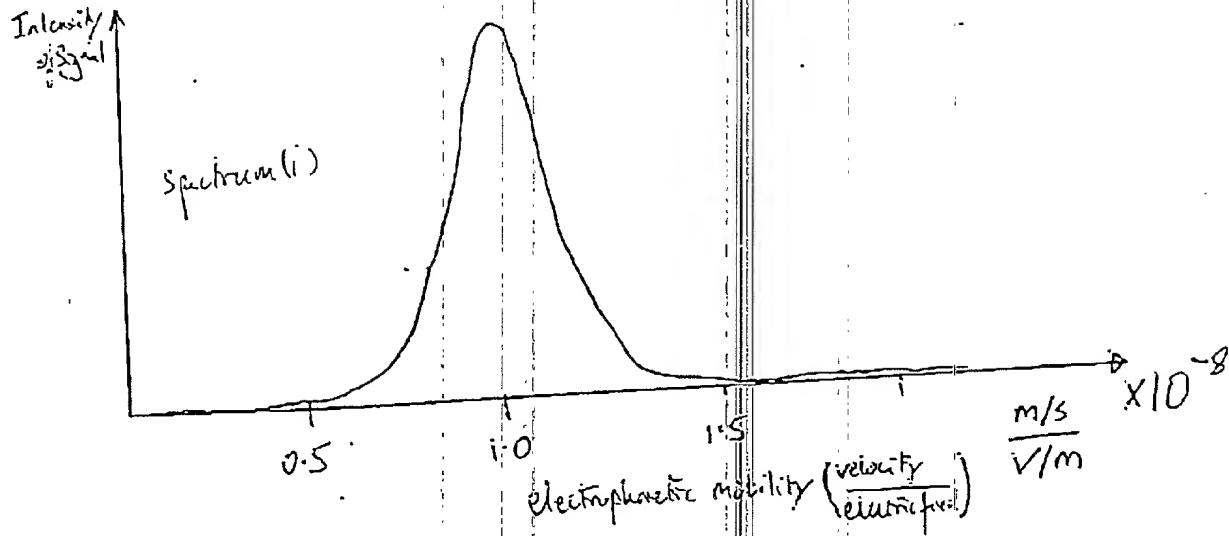
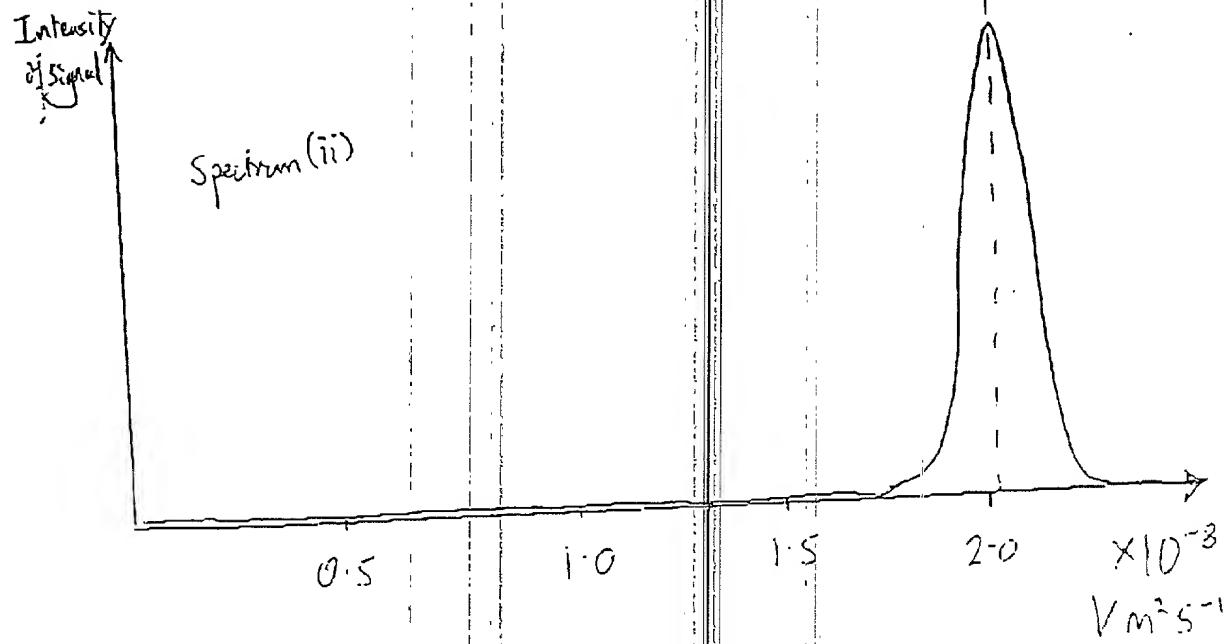


FIG. 12B



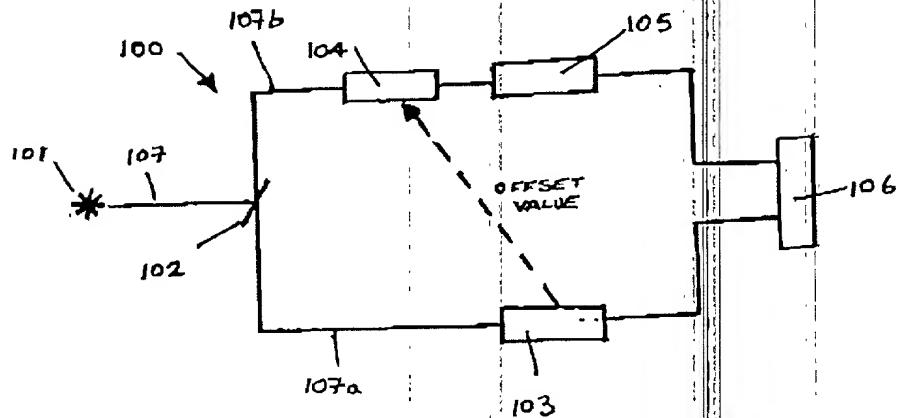


Figure 9

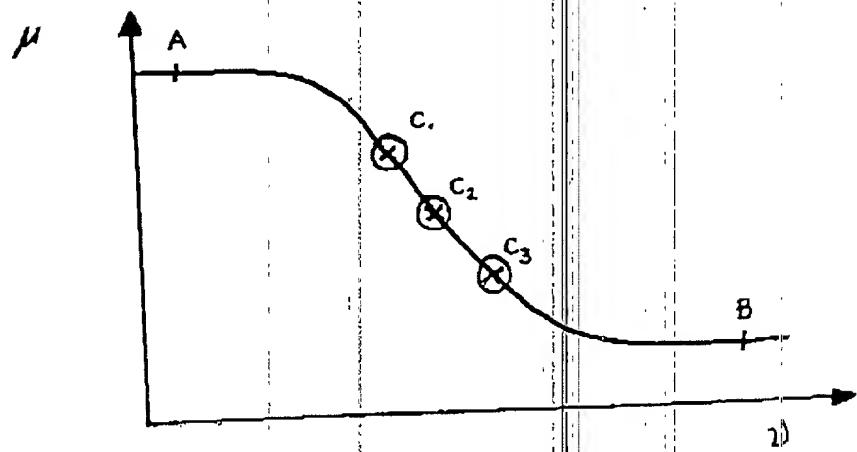


Figure 13

10/11

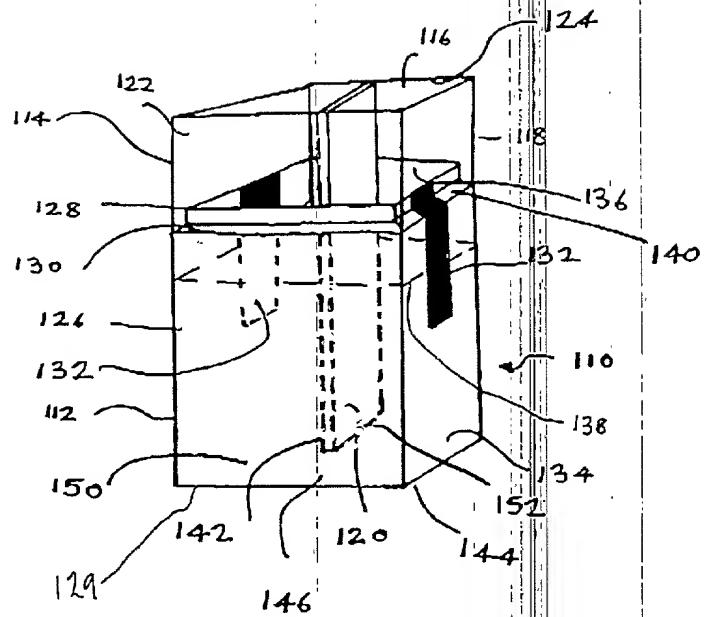


Figure 14

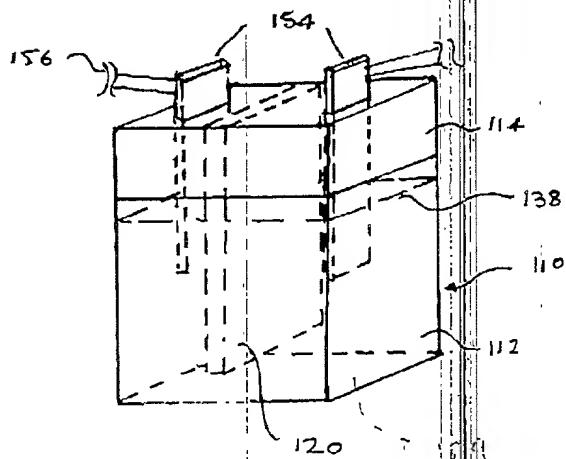


Figure 15

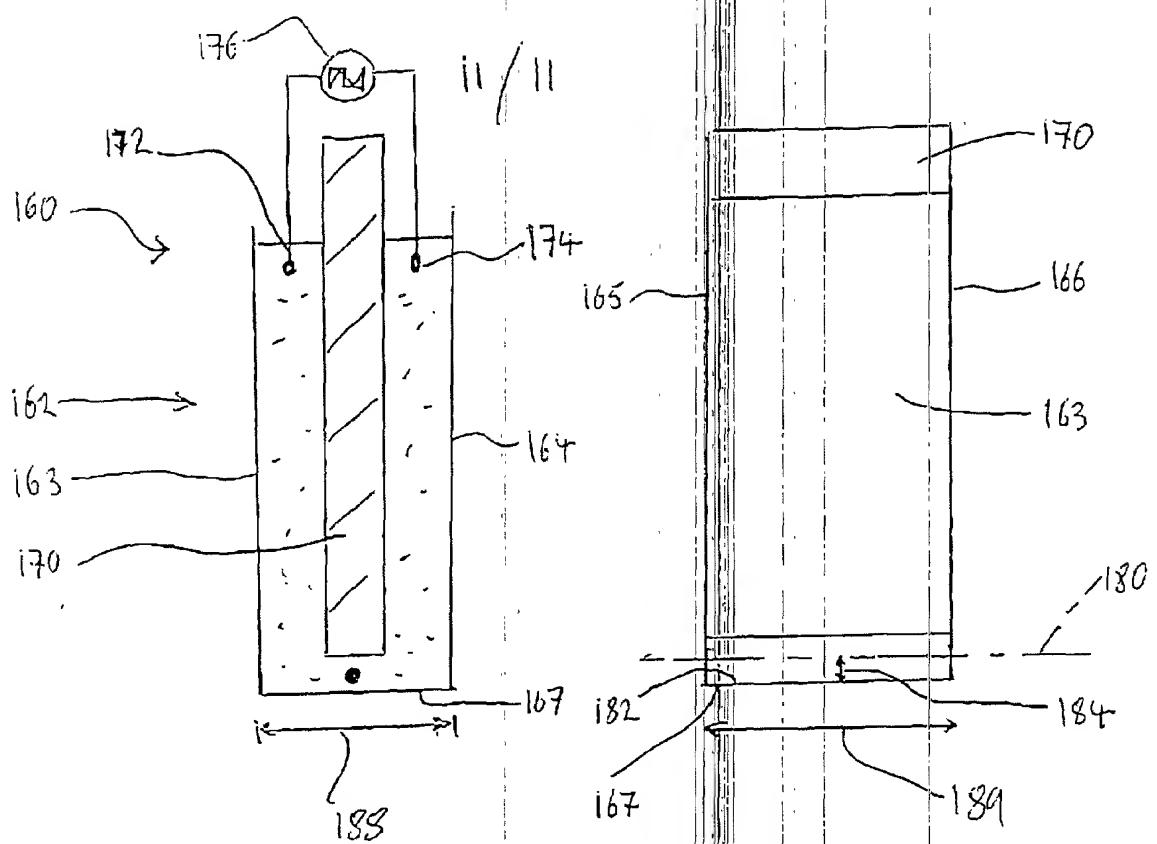


FIG. 16A

FIG. 16B